

State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Richard W. Sprott
Director

150 North 1950 West
P.O. Box 144820
Salt Lake City, Utah 84114-4820
(801) 536-4000 Voice
(801) 536-4099 Fax
(801) 536-4414 T.D.D.
Web: www.deq.state.ut.us

DAQE-857-01

October 29, 2001

Mike Dalley
Environmental Manager
Staker Paving and Construction Company
P.O. Box 27598
Salt Lake City, Utah 84127-0598

Dear Mr. Dalley:

Re: Approval Order: Modification of DAQE-105-96, for Aggregate Production Increase, Benton Pit
Salt Lake County - CDS SM; NA; NSPS, Title V
Project Code: N0128-003

The attached document is an Approval Order for the above-referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. Jon Black. He may be reached at (801) 536-4047.

Sincerely,

Richard W. Sprott, Executive Secretary
Utah Air Quality Board

RWS:RR:JB:dn

cc: Salt Lake Valley Health Department
Mike Owens, EPA Region VIII

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**APPROVAL ORDER MODIFICATION TO DAQE-105-96, FOR
AGGREGATE PRODUCTION INCREASE, BENTON PIT**

**Prepared By: Jon Black, Engineer
(801) 536-4047, SLC
(801) 371-1106, Provo**

APPROVAL ORDER NUMBER

DAQE-857-01

Date: October 29, 2001

Staker Paving and Construction Company

Source Contact

Mike Dalley

(801) 951-7321

**Richard W. Sprott
Executive Secretary
Utah Air Quality Board**

Abstract

Staker Paving and Construction Company has proposed to increase production at the Benton Pit, Approval Order (AO) DAQE-105-96. The Benton Pit is located at 2270 North Beck Street, Salt Lake City, Utah. The Benton Pit is in Salt Lake County which is a Nonattainment area of the National Ambient Air Quality Standards (NAAQS) for PM₁₀ and SO₂, and is a Maintenance area for Ozone. New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) applies to this source. National Emission Standards for Hazardous Air Pollutants (NESHAP) and Maximum Available Control Technology (MACT) regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source. The emissions, in tons per year, will change as follows: PM₁₀ (+) 7.91, NO_x (+) 12.20, SO₂ (+) 3.64, CO (+) 4.81, VOC (+) 0.65. The changes in emissions will result in the following potential to emit totals: PM₁₀ (+) 19.08, NO_x (+) 20.66, SO₂ (+) 4.36, CO (+) 8.19, VOC (+) 1.41. The increase of the combination of PM₁₀, SO₂, and NO_x is 23.75 tons per year. Therefore, emission offsets will not be required.

The project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). A public comment period was held in accordance with UAC R307-401-4 and no comments were received. This air quality AO authorizes the project with the following conditions, and failure to comply with any of the conditions may constitute a violation of this order.

General Conditions:

1. This AO applies to the following company:

Site Office

Staker Paving and Construction Company
2270 North Beck Street
Salt Lake City, Utah 84116

Phone Number:

Fax Number:

Corporate Office Location

Staker Paving and Construction Company
P.O. Box 27598
Salt Lake City, Utah 84127-0598

(801) 298-7500

(801) 295-5526

The equipment listed in this AO shall be operated at the following location:

PLANT LOCATION:

2270 North Beck Street, Salt Lake City, Utah, Salt Lake County
UTM COORDINATES: UTM datum NAD27
4,518.0 km. Northing, 423.0 km. Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307), and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401, UAC.

4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
 - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.
 - B. All other records Two years
6. Staker Paving and Construction Company (Staker Paving) shall operate the aggregate processing equipment and shall conduct its operations of the Foss-Lewis Benton Pit in accordance with the terms and conditions of this AO, which was written pursuant to Staker Paving's Notice of Intent submitted to the Division of Air Quality (DAQ) on June 13, 2001, and additional information submitted to the DAQ on August 14, 2001.
7. This AO shall replace the AO (DAQE-105-96) dated February 1, 1996.
8. The approved installations shall consist of the following equipment:
 - A. One (1) portable screening and crushing plant, consisting of a 45-inch cone crusher and triple deck screens
 - B. One (1) Grizzly (scalping screen) and feed hopper
 - C. One (1) Screen (engineering material)
 - D. One (1) Jaw crusher
 - E. Miscellaneous Front-end loaders, Loaders, Dozers, and Haul Trucks

Limitations and Tests Procedures

9. Visible emissions from the following emission points shall not exceed the following values:
 - A. All crushers - 15% opacity
 - B. All screens - 10% opacity
 - C. All conveyor transfer points - 10% opacity
 - D. All diesel engines - 20% opacity
 - E. Conveyor drop points - 20% opacity
 - F. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

10. The following production limits shall not be exceeded:
 - A. 1,000,000 tons of processed aggregate material per rolling 12-month period
 - B. 750 tons of processed aggregate material per hour based on a 24-hour average

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by belt scale records or vendor receipts. The records of production shall be kept on a daily basis. The tons per hour limitation shall be determined by totaling the daily production, from midnight to midnight, and dividing that total by 24 hours. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

Roads and Fugitive Dust

11. All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. The application of water or chemical treatment shall be used. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition unless it is below freezing. The opacity shall not exceed 20% during all times the areas are in use. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:
 - A. Date
 - B. Number of treatments made, dilution ratio, and quantity
 - C. Rainfall received, if any, and approximate amount
 - D. Time of day treatments were made
 - E. Records of temperature if the temperature is below freezing

Records of treatment shall be made available to the Executive Secretary or Executive Secretary's representative upon request and the records shall include the two-year period prior to the date of the request.

12. The haul road shall not exceed 1/4 mile in length and the vehicle speed along the haul road shall not exceed 10 miles per hour. The vehicle speed on the haul road speed shall be posted, at a minimum, on site at the beginning of the haul road so that it is clearly visible from the haul road.
13. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be

made at 15-second intervals over a six minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made one-half the vehicle length or greater behind the vehicle and at approximately one-half the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.

14. The storage piles and unpaved operational areas shall be watered to minimize generation of fugitive dusts as dry conditions warrant or as determined necessary by the Executive Secretary.

Fuels

15. The owner/operator shall use only natural gas, #1 or #2 fuel oil as fuel.

Federal Limitations and Requirements

16. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18 and Subpart OOO, 40 CFR 60.670 to 60.676 (Standards of Performance for Nonmetallic Mineral Processing Plants) apply to this installation. To be in compliance, this facility must operate in accordance with the most current version of 40 CFR 60 applicable to this source.

Records & Miscellaneous

17. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded, and the records shall be maintained for a period of two years.
18. The owner/operator shall comply with R307-150 Series, Inventories, Testing and Monitoring.
19. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the DAQ. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site: http://www.eq.state.ut.us/eqair/aq_home.htm

The annual emission estimations below include point source, fugitive emissions, fugitive dust, road dust, and do not include tail pipe emissions from haul trucks. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, nonattainment area, maintenance area, and Title V source requirements of the UAC R307. They are not to be used for determining compliance.

The Potential To Emit (PTE) emissions for this source (the entire plant) are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM ₁₀	19.08
B.	SO ₂	4.36
C.	NO _x	20.66
D.	CO	8.19
E.	VOC	1.41

Approved By:

Richard W. Sprott, Executive Secretary
Utah Air Quality Board